# Data Sheet

We make sure

FUJITSU COMPUTERS SIEMENS

# LIFEBOOK E8420

## The expert without compromises

**Issue: November 2008**

Fujitsu Siemens Computers is the leading European IT manufacturer. With a strategic focus on innovative mobility and the dynamic data center, we offer a unique range of products and services from notebooks and desktops to servers and IT infrastructure solutions. Famous German engineering and exceptional in-house quality testing capabilities in our test centers ensure extraordinary product quality and reliability across all product lines.

**LIFEBOOK E8420**

The simple philosophy behind LIFEBOOK E8420: only the best is good enough. It is the ideal choice for performance-oriented office-based users: use state-of-the-art technology and work becomes a pleasure. 15.4-inch WSXGA+ display and an optional NVIDIA graphics card ensure a brilliant display screen and best performance.

**More than enough performance**

Maximum productivity even for the most demanding of applications thanks to state-of-the-art technology.

- Intel® Centrino® 2 with vPro™ technology, optional high-performance NVIDIA graphics card

**Ideal substitute for a desktop**

Effective working even for the most demanding of users in all situations.

- 15.4-inch WSXGA+ display, modular bay, optional second 320GB hard drive

**Maximum connectivity**

Available everywhere - wireless connectivity anytime anywhere, even if there is no hotspot nearby.

- Optional integrated 3G/UMTS, WLAN and Bluetooth

**Maximum security**

Protect your company data against unauthorized third-party access.

- Benefit from our end-to-end anti-theft concept with system and user protection, such as optional fingerprint sensor, TPM module and SmartCase Logon+

intel Centrino 2 vPro inside

SIERRA WIRELESS EMPOWERED

Green IT

BEST CONNECTIVITY

SYSTEM GUARDS

ULTIMATE SECURITY

FAMILY CONCEPT

2ND BATTERY

BRILLIANT GRAPHICS

FULL SET OF INTERFACES

INFORMATION DISPLAY

CONFCAM

**Components**

| | |
|---|---|
| **Processor** | Intel® Core™2 Duo T9600 (2.8 GHz, 6 MB, 1066 MHz)<br>Intel® Core™2 Duo T9400 (2.53 GHz, 6 MB, 1066 MHz)<br>Intel® Core™2 Duo P8600 (2.4 GHz, 3 MB, 1066 MHz)<br>Intel® Core™2 Duo P8400 (2.26 GHz, 3 MB, 1066 MHz) |
| **Memory modules** | 2 GB (1 module(s) with 2 GB, DDR3), 1066 MHz<br>1 GB (1 module(s) with 1 GB, DDR3), 1066 MHz |
| **Hard disk drives (internal)** | 320 GB, 5400 rpm, SATA, 2.5-inch S.M.A.R.T.<br>160 GB, 7200 rpm, SATA, 2.5-inch S.M.A.R.T.<br>160 GB, 5400 rpm, SATA, 2.5-inch S.M.A.R.T.<br>120 GB, 5400 rpm, SATA, 2.5-inch S.M.A.R.T. |
| Hard disk notes | ShockSensor for HDD shock protection<br>One Gigabyte equals one billion bytes, when referring to hard disk drive capacity. |
| **Display** | 15.4-inch TFT 1680 x 1050 pixel (WSXGA+) |
| **WLAN (optional)** | Atheros Minicard b/g 802.11 b/g<br>Intel® Wireless WiFi Link 5300 AGN 11/13ch |
| **UMTS/HSUPA (optional)** | Sierra Wireless MC8790 (downlink 7.2 MBit/s, uplink 2.0 MBit/s) |
| **Modular bay options** | 2nd battery<br>2nd hard disk drive<br>DVD Super Multi<br>Weight saver |

| **Base unit** | **LIFEBOOK E8420 NVIDIA gfx** | **LIFEBOOK E8420 Intel gfx** |
|---|---|---|
| **General system information** | | |
| Chipset | Intel® PM45, ICH 9-ME | Intel® GM45, ICH 9-ME |
| BIOS features | BIOS based on Phoenix SecureCore | BIOS based on Phoenix SecureCore |
| Memory slots | 2 DIMM | 2 DIMM |
| Turbo memory | Optional 4 GB | Optional 4 GB |
| Supported capacity RAM (min.) | 1 GB | 1 GB |
| Supported capacity RAM (max.) | 4 GB | 4 GB |
| Memory notes | DDR3 - 1066 MHz<br>8 GB - with future memory models. | DDR3 - 1066 MHz<br>8 GB - with future memory models. |
| **Interfaces** | | |
| Memory card slots | 1 | 1 |
| ExpressCard slots | 1 | 1 |
| PC Card slot (Type I/II) | 1 | 1 |
| SmartCard slot | 1 | 1 |
| SIM card slot | 1 (option) | 1 (option) |
| Modem (RJ-11) | 1 | 1 |
| USB 2.0 total | 4 | 4 |
| FireWire (IEEE1394) | 1 | 1 |
| Serial (RS-232) | 1 | 1 |
| Parallel | 1 | 1 |
| VGA | 1 | 1 |
| HDMI | 1 | 1 |
| Ethernet (RJ-45) | 1 | 1 |
| DC-in | 1 | 1 |
| Audio: line-in / microphone | 1 | 1 |
| Audio: line-out / headphone | 1 | 1 |
| Internal microphones | 2 | 2 |
| Docking connector for Port Replicator | 1 | 1 |
| Kensington Lock support | 2 | 2 |
| **Wired communication** | | |
| Modem type | Optional: 56 K V.92 modem MDC1.5 | Optional: 56 K V.92 modem MDC1.5 |
| LAN | Built-in 10/100/1000 MBit/s Intel® 82567LM | 10/100/1000 MBit/s Intel® 82567LM |
| **Wireless technologies** | | |
| Antennas | 3 Dual band WLAN antennas, 2 UMTS antenna | 3 Dual band WLAN antennas, 2 UMTS antenna |
| Infrared link (Fast IrDa 1.1, 4 Mbps) | 1 | 1 |
| WLAN notes | Import and usage according to country-specific regulations. | Import and usage according to country-specific regulations. |
| **Keyboard and pointing devices** | | |
| | Spill-proof keyboard<br>Number of keyboard keys: 86, Keyboard pitch: 19 mm, Keyboard stroke: 2.7 mm<br>TouchStick<br>TouchPad with two mouse buttons and one scroll button<br>Second set of mouse buttons<br>EcoButton<br>LockWorkstation button<br>MobilityCenter button<br>Fingerprint sensor | Spill-proof keyboard<br>Number of keyboard keys: 86, Keyboard pitch: 19 mm, Keyboard stroke: 2.7 mm<br>TouchStick<br>TouchPad with two mouse buttons and one scroll button<br>Second set of mouse buttons<br>EcoButton<br>LockWorkstation button<br>MobilityCenter button<br>Fingerprint sensor |

| | | |
|---|---|---|
| **Multimedia** | | |
| Audio type | On board | On board |
| Audio codec | Realtek ALC269 | Realtek ALC269 |
| Audio features | Stereo speakers, 2 internal microphones | Stereo speakers, 2 internal microphones |
| Camera | Optional: Built-in ConfCamera, 1.3 megapixel, VGA camera | Optional: Built-in ConfCamera, 1.3 megapixel, VGA camera |
| **Graphics** | | |
| max. resolution external display | 1920 x 1200 pixel | 1920 x 1200 pixel |
| Graphics brand name | NVIDIA® GeForce® 9300M GS | Intel® GMA 4500 |
| Graphic features | DualView (Windows XP & Windows Vista) | DualView (Windows XP & Windows Vista) |
| **Power supply** | | |
| AC adapter | 19 V / 100 W (5.27 A) | 19 V / 80 W (4.22 A) |
| Rated voltage range | 100 - 240 V (AC Input) | 100 - 240 V (AC Input) |
| Rated frequency range | 50 - 60 Hz | 50 - 60 Hz |
| 1st battery | Li-Ion battery 8-cell, 5200 mAh, 74 Wh | Li-Ion battery 8-cell, 5200 mAh, 74 Wh |
| 2nd battery | Li-Ion, 3800 mAh, 41 Wh | Li-Ion, 3800 mAh, 41 Wh |
| Battery features | Dynamic charge supported (rapid charge) | Dynamic charge supported (rapid charge) |
| Benchmark | Mobile Mark 2005 | Mobile Mark 2005 |
| Runtime 1st battery | up to 5 h | up to 5 h |
| Runtime 1st + 2nd battery | up to 8.5 h | up to 8.5 h |
| Battery notes | Disclaimer: Battery life may vary depending on product model, configuration, applications, power management settings and features utilized. Battery recharge time depends on usage. | Disclaimer: Battery life may vary depending on product model, configuration, applications, power management settings and features utilized. Battery recharge time depends on usage. |
| **Dimensions / Weight / Environmental** | | |
| Operating ambient temperature | 5 - 35°C | 5 - 35°C |
| Dimension (W x D x H) | 357 x 260 x 36 mm | 357 x 260 x 36 mm |
| Weight | 2.7 kg | 2.7 kg |
| Weight notes | Weight may vary depending on actual configuration. | Weight may vary depending on actual configuration. |
| **Operating system** | | |
| Operating system optional preinstalled | Microsoft® Windows Vista® Business 32bit<br>Microsoft® Windows Vista® Home Basic<br>TwinLoad Microsoft® Windows® XP Professional (DVD) | Microsoft® Windows Vista® Business 32bit<br>Microsoft® Windows Vista® Home Basic<br>TwinLoad Microsoft® Windows® XP Professional (DVD) |
| Operating system notes | Driver support for Microsoft Windows XP | Driver support for Microsoft Windows XP |
| **Additional Software** | | |
| Additional software (preinstalled) | Adobe Acrobat Reader<br>Application panel tool<br>Eco Power Saving Utility<br>EasyGuide online user documentation<br>Nero Essentials (burning software)<br>Norton Internet Security (incl. Firewall) on Drivers & Utilities DVD for Microsoft Windows XP<br>Toshiba Bluetooth Stack | Adobe Acrobat Reader<br>Application panel tool<br>Eco Power Saving Utility<br>EasyGuide online user documentation<br>Nero Essentials (burning software)<br>Norton Internet Security (incl. Firewall) on Drivers & Utilities DVD for Microsoft Windows XP<br>Toshiba Bluetooth Stack |
| Additional software (optional) | Windows Vista® recovery media<br>Drivers & Utilities DVD (DUDVD)<br>UMTS connection manager (optional with UMTS)<br>SmartCase Logon+ | Windows Vista® recovery media<br>Drivers & Utilities DVD (DUDVD)<br>UMTS connection manager (optional with UMTS)<br>SmartCase Logon+ |
| **Manageability** | | |
| Manageability features | DeskUpdate Driver management<br>DeskView Migrate (optional)<br>DeskView Control (optional) | DeskUpdate Driver management<br>DeskView Migrate (optional)<br>DeskView Control (optional) |
| Manageability type | DeskView 10.x client management including: | DeskView 10.x client management including: |
| DeskView features | On/Offline remote client management<br>Detailed system inventory management and reports<br>BIOS Management<br>Remote power management<br>System notifications<br>Security Remote Control<br>DeskView Helpdesk Integration<br>WoL (Wake on LAN) | On/Offline remote client management<br>Detailed system inventory management and reports<br>BIOS Management<br>Remote power management<br>System notifications<br>Security Remote Control<br>DeskView Helpdesk Integration<br>WoL (Wake on LAN) |
| Supported standards | WMI<br>PXE<br>BootP (made4you) | WMI<br>PXE<br>BootP (made4you) |
| Manageability link | http://www.fujitsu-siemens.com/solutions/it_infrastructure_solutions/manageability/featurefinder.html | http://www.fujitsu-siemens.com/solutions/it_infrastructure_solutions/manageability/featurefinder.html |
| **Security** | | |
| Physical security | Kensington Lock support | Kensington Lock support |
| System security | Optional: Trusted plattform module (TPM 1.2)<br>Symantec Norton Internet Security (90 day test version) | Optional: Trusted plattform module (TPM 1.2)<br>Symantec Norton Internet Security (90 day test version) |

| | | |
|---|---|---|
| **Security** | | |
| User security | Optional: Integrated Fingerprint Sensor<br>Integrated SmartCard controller in PC Card with system lock support<br>Separate SmartCard slot<br>Hard disk password<br>SystemLock BIOS SmartCard security<br>User and supervisor BIOS password | Optional: Integrated Fingerprint Sensor<br>Integrated SmartCard controller in PC Card with system lock support<br>Separate SmartCard slot<br>Hard disk password<br>SystemLock BIOS SmartCard security<br>User and supervisor BIOS password |
| **Compliance** | | |
| USA/Canada | FCC Class B (Depending on wireless configuration) | |
| Compliance link | https://sp.fujitsu-siemens.com/sites/certificates/default.aspx | |
| **Portreplicator interfaces (optional)** | | |
| DC-in | 1 | |
| Power on switch | 1 | |
| Headphones | 1 | |
| Microphones | 1 | |
| USB 2.0 total | 4 | |
| VGA | 1 | |
| DVI | 1 (with HDCP Support) | |
| Serial (RS-232) | 1 | |
| Mouse / Keyboard (PS/2) | 1 | |
| Ethernet (RJ-45) | 1 | |
| Parallel | 1 | |
| Kensington Lock support | 2 | |
| **Warranty** | | |
| Standard Warranty | 2 years | |
| Service level | Collect & Return Service / Bring-In Service (depending on country) | |
| **Maintenance and Support Services - the perfect extension** | | |
| Recommended Service | 3 years, On-site Service | |
| Spare Parts availability | 5 years | |
| Service Weblink | www.fujitsu-siemens.com/Supportservice | |

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Take back and Recycling information:
http://www.fujitsu-siemens.com/recycling

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